

APPLIED SCIENCE &
TECHNOLOGY INDEX

1958

APPLIED SCIENCE & TECHNOLOGY INDEX

1958

EDITED BY
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INDEXER
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MANAGING EDITOR
CHARLOTTE TRILLING



THE H. W. WILSON COMPANY
NEW YORK

1959

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PRINTED IN THE UNITED STATES OF AMERICA

Library of Congress Catalog Card No. 14-5408 rev 2

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Acknowledgments

In addition to the staff members whose names appear on the title page we wish to acknowledge the contributions of the following who indexed for the 1958 volume part-time during the year: Leone Baker, Sara Jacoby, Jane C. Luhks, Mary M. Raymond.

R. P.



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List of Periodicals Indexed

- A I Ch E J**—Journal of the American Institute of Chemical Engineers. \$9 q American Institute of Chemical Engineers, 25 W 45th St, New York 36
- A M A Archives Ind Health**—A.M.A. Archives of Industrial Health. \$10 m American Medical Association, 535 N Dearborn St, Chicago 10
- A S M E Trans**—Transactions of the American Society of Mechanical Engineers. \$12 m (except Mr, Jr, S, D) American Society of Mechanical Engineers, 29 W 39th St, New York 18
- \$6 to members and affiliates
- A S T M Bul**—Bulletin of the American Society for Testing Materials. \$3.50 8 times a yr American Society for Testing Materials, 1916 Race St, Philadelphia 3
- Aero/Space Eng**—Aero/Space Engineering. \$5 m Institute of the Aeronautical Sciences, Inc, 2 E 64th St, New York 21
- Aeronautical Eng R**—Aeronautical Engineering Review. \$5 m Institute of the Aeronautical Sciences, Inc, 2 E 64th St, New York 21
- Name changed to Aero/Space Engineering May, 1958
- Air Cond Heat & Ven**—Air Conditioning Heating and Ventilating. \$3 m Industrial Press, 93 Worth St, New York 13
- Aircraft Eng**—Aircraft Engineering. 40s; U.S. \$6.50; Canada \$6.50 m Bunhill Publications, Ltd, 12 Bloomsbury Square, London, W.C. 1
- Am Assn Pet Geologists Bul**—Bulletin of the American Association of Petroleum Geologists. \$18 m American Association of Petroleum Geologists, Inc, Box 979, Tulsa, 1, Okla.
- Am Cer Soc Bul**—Bulletin of the American Ceramic Society. \$6 m American Ceramic Society, 4055 N High St, Columbus 14, Ohio
- Am Cer Soc J**—Journal of the American Ceramic Society; Ceramic Abstracts. \$14 m American Ceramic Society, 4055 N High St, Columbus 14, Ohio
- Am Chem Soc J**—Journal of the American Chemical Society. \$30 s-m American Chemical Society, 1155 16th St, N.W., Washington 6, D.C.
- Am Concrete Inst J**—Journal of the American Concrete Institute. \$18 m American Concrete Institute, P.O. Box 4754 Redford Station, Detroit 19, Mich.
- Am Dyestuff Rep**—American Dyestuff Reporter. \$7.50 bi-w Howes Pub. Co, 44 E 23d St, New York 10
- Am Gas Assn Mo**—American Gas Association Monthly. \$3 m (bi-m JI-Ag) American Gas Assn, Inc, 420 Lexington Av, New York 17
- Am Inst Chem Eng J**. See A I Ch E J
- Am J Clinical Nutrition**—American Journal of Clinical Nutrition. \$8 bi-m The American Journal of Clinical Nutrition, Inc, 11 E 36th St, New York 16
- Am J Phys**—American Journal of Physics. \$7.50 m (except Jr, JI and Ag) American Institute of Physics, Inc, 335 E 45th St, New York 17
- Am J Pub Health**—American Journal of Public Health and the Nation's Health. \$12 m American Public Health Association, Inc, 1790 Broadway, New York 19
- Am Mach**—American Machinist. \$5 bi-w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Extra number published in Mid-September
- Am Medical Assn Archives Ind Health**. See A M A Archives Ind Health
- Am Mineralogist**—American Mineralogist. \$6 bi-m U.S. Geological Survey, Washington 25, D.C.
- Am Oil Chem Soc J**—Journal of the American Oil Chemists' Society. \$8 m American Oil Chemists' Society, 35 E Wacker Drive, Chicago 1
- Am Perfumer & Aromatics**—American Perfumer and Aromatics. \$5 m Moore Pub. Co, Inc, 48 W 38th St, New York 18
- Am Scientist**—American Scientist. \$2 q Sigma Xi, 56 Hillhouse Av, New Haven 11, Conn.
- Am Soc C E Proc**—Proceedings of the American Society of Civil Engineers. \$40 m American Society of Civil Engineers, 33 W 39th St, New York 18
- Am Soc Mech Eng Trans**. See A S M E Trans
- Am Soc Naval Eng J**—Journal of the American Society of Naval Engineers. \$12 q American Society of Naval Engineers, Inc, 1012 14th St, N.W., Washington 5, D.C.
- Am Soc T M Bul**. See A S T M Bul
- Am Water Works Assn J**—Journal of the American Water Works Association. \$10 m American Water Works Assn, 2 Park Av, New York 16
- Anal Chem**—Analytical Chemistry. \$5 m American Chemical Society, 1155 16th St, N.W., Washington 6, D.C.
- Ap Hydraulics**—Applied Hydraulics. \$7 m Industrial Pub. Corp, 812 Huron Rd, Cleveland 15
- Applications & Ind**—Applications and Industry. \$8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18
- Arch Forum**—Architectural Forum, The Magazine of Building. \$6.50 m Time, Inc, 9 Rockefeller Plaza, New York 20
- Arch Rec**—Architectural Record. \$5.50 m F. W. Dodge Corp, 119 W 40th St, New York 18
- Assn for Computing Mach J**—Journal of the Association for Computing Machinery. \$10 q Association for Computing Machinery, 2 E 63d St, New York 21
- Audio**—Audio. \$4 m Radio Magazines, Inc, 204 Front St, Mineola, New York
- Audio Eng Soc J**—Journal of the Audio Engineering Society. \$8 q Audio Engineering Society, P.O. Box 12, Old Chelsea Station, New York 11
- Automation**—Automation; the Magazine of Automatic Operations. \$10 m Penton Pub. Co, Penton Bldg, Cleveland 13
- Automobile Eng**—The Automobile Engineer. \$3; U.S. \$8.50; Canada \$8.50 m Iliffe & sons, Ltd, Dorset House, Stamford St, London, S.E. 1
- Automotive Ind**—Automotive Industries. \$10 s-m Chilton Co, Chestnut & 56th Sts, Philadelphia 39
- Aviation Age**—Aviation Age. \$10 m Conover-Mast Publications, Inc, 205 E. 42d St, New York 17
- Name changed to Space/Aeronautics October, 1958
- Bell Lab Rec**—Bell Laboratories Record. \$2 m Bell Telephone Laboratories, Inc, 463 West St, New York 14
- Bell System Tech J**—Bell System Technical Journal. \$5 bi-m American Telephone and Telegraph Co, 195 Broadway, New York 7
- Brit Inst Radio Eng J**—Journal of the British Institution of Radio Engineers. 80s m British Institution of Radio Engineers, 9 Bedford Square, London, W.C. 1
- Brit Plastics**—British Plastics. £2 12s; U.S. \$7.50; Canada \$7.50 m Iliffe & Sons, Ltd, Dorset House, Stamford St, London, S.E. 1
- Can Chem Process**—Canadian Chemical Processing. \$6; U.S. \$10 m Hugh C. Maclean Publications, Ltd, 1450 Don Mills Rd, Don Mills, Ontario, Canada
- Can J Chem Eng**—Canadian Journal of Chemical Engineering. \$3; U.S. \$4 bi-m Chemical Institute of Canada, 18 Rideau St, Ottawa 2, Ont.
- Can Min & Met Bul**—Canadian Mining and Metallurgical Bulletin. \$10 m Canadian Institute of Mining and Metallurgy, 906 Drummond Bldg, Montreal, Que.
- Cer Ind**—Ceramic Industry. \$4 m Industrial Publications, Inc, 5 So. Wabash Av, Chicago 3
- Chem & Eng N**—Chemical and Engineering News. \$6 w American Chemical Society, 1155 16th St, N.W., Washington 6, D.C.
- Chem & Ind**—Chemistry and Industry. £5 w Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
- Chem Eng**—Chemical Engineering. \$3 bi-w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Chem Eng Prog**—Chemical Engineering Progress. \$6 m American Institute of Chemical Engineers, 25 W 45th St, New York 36

- Civil Eng**—Civil Engineering, the Magazine of Engineered Construction. \$5 m American Society of Civil Engineers, 33 W 39th St, New York 18
- Coal Age**—Coal Age. \$3 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-July
- Com & Electronics**—Communication and Electronics. \$8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18
- Combustion**—Combustion. \$4 m Combustion Pub. Co, Inc, 200 Madison Av, New York 16
- Comp Air Mag**—Compressed Air Magazine. \$5 m Compressed Air Magazine Co, 942 Memorial Parkway, Phillipsburg, N.J.
- Concrete**—Concrete. \$6 m Concrete Pub. Corp, Daily News Plaza, 400 W Madison St, Chicago 6
- Control Eng**—Control Engineering. \$5 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Corrosion**—Corrosion. \$11 m National Association of Corrosion Engineers, Inc, 1 Main St, Houston 2, Tex.
- Diesel Power**—Diesel Power. \$4 m Diesel Publications, Inc, 80 Lincoln Av, Stamford, Conn.
- Dom Eng**—Domestic Engineering. \$5 m Domestic Engineering Co, 1801 Prairie Av, Chicago 16
- Drug & Cosmetic Ind**—Drug and Cosmetic Industry. \$3 m Drug Markets, Inc, 101 W 31st St, New York 1
- Econ Geol**—Economic Geology and the Bulletin of the Society of Economic Geologists. \$6.50 s-q Economic Geology Pub. Co, M. M. Leighton, Business Mgr, Urbana, Ill.
- Elec Com**—Electrical Communication. \$2 q International Telephone and Telegraph Corp, 67 Broad St, New York 4
- Elec Constr & Maint**—Electrical Construction and Maintenance. \$3 m McGraw-Hill Pub. Co, 330 W 42d St, New York 36
Extra number published in Mid-September
- Elec Eng**—Electrical Engineering. \$12 m American Institute of Electrical Engineers, 33 W 39th St, New York 18
- Elec Manuf**—Electrical Manufacturing. \$15 m The Gage Pub. Co, 1250 6th Av, New York 20
- Elec World**—Electrical World. \$6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Electrochem Soc J**—Journal of the Electrochemical Society. \$18 m Electrochemical Society, 1860 Broadway, New York 23
- Electronic & Radio Eng**—Electronic and Radio Engineer. £2 9s, U.S. and Canada \$7.50 m Iliffe & Sons, Ltd, Dorset House, Stamford St, London, S.E. 1
- Electronic Eng**—Electronic Engineering. £1 16s; U.S. \$5; Canada \$5 m Morgan Brothers, Ltd, 28, Essex St, Strand, London, W.C. 2
- Electronic Ind**—Electronic Industries. \$5 m Chilton Co, Chestnut & 56th Sts, Philadelphia 39
- Electronics**—Electronics. \$6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-June
- Eng & Min J**—Engineering and Mining Journal. \$4 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-June
- Eng J**—Engineering Journal. \$6 m Engineering Institute of Canada, 2050 Mansfield St, Montreal 2, Que.
- Eng N**—Engineering News-Record. \$6 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Engineer**—Engineer. £5 10s; Canadian subs £5 5s w Morgan Brothers, Ltd, 28, Essex St, Strand, London, W.C. 2
- Engineering**—Engineering. £5 10s; Canadian subs £5 5s w Engineering Ltd, 36 Bedford St, London, W.C. 2
- Food Eng**—Food Engineering. \$2 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Food Tech**—Food Technology. \$11 m Institute of Food Technologists, 11606 S. Bell Av, Chicago 43
- Foundry**—Foundry. \$10 m Penton Pub. Co, Penton Bldg, Cleveland 13
- Franklin Inst J**—Journal of the Franklin Institute. \$10 m Franklin Institute of the State of Pennsylvania, Benjamin Franklin Parkway at 20th St, Philadelphia 3
- Gas**—Gas. \$2 m Chilton Co, 56th and Chestnut Sts, Philadelphia 39
- Gas Age**—Gas Age combining Natural Gas, Gas Age, Gas Record. \$5 bi-w Moore Pub. Co, Inc, 48 W 38th St, New York 18
- Gen Elec R**—General Electric Review. bi-m General Electric Co, 1 River Road, Schenectady 5, N.Y.
- Geol Soc Bul**—Bulletin of the Geological Society of America. \$15 m Geological Society of America, H. R. Aldrich, sec, 419 W 117th St, New York 27
- Geophysics**—Geophysics. \$10 5 times a yr Society of Exploration Geophysicists, Colin Campbell, Business Manager, Box 1536, Tulsa 1, Okla.
- Glass Ind**—Glass Industry. \$4 m Ogden Pub. Co, 55 W 42d St, New York 36
- Heating-Piping**—Heating, Piping and Air Conditioning. \$3 m Keeney Pub. Co, 6 N Michigan Av, Chicago 2
Includes American Society of Heating and Air Conditioning Engineers Journal section
- I S A J**—ISA Journal. \$4 m Instrument Society of America, 313 6th Av, Pittsburgh 22
- Illum Eng**—Illuminating Engineering, The Journal of the Illuminating Engineering Society. \$18 m Illuminating Engineering Society, 1860 Broadway, New York 23
- Ind & Eng Chem**—Industrial and Engineering Chemistry. \$5 m American Chemical Society, 1155 16th St, N.W. Washington 6, D.C.
- Ind Chem**—Industrial Chemist. 40s m Tothill Press Ltd, 33 Tothill St, Westminster, London, S.W. 1
- Ind Finishing**—Industrial Finishing. \$3 m Practical Publications, Inc, 1142 N. Meridian St, Indianapolis 4
- Ind Lab**—Industrial Laboratories, The Magazine of Research and Development. \$10 m Relyea Pub. Corp, 201 N. Wells St, Chicago 6
- Ind Med**—Industrial Medicine and Surgery. \$6 m Industrial Medicine Pub. Co, 400 S.W. 69th Av, Miami 44, Fla.
- Ind Phot**—Industrial Photography. \$6 m Photography in Business, Inc, 10 E 40th St, New York 16
- Ind Quality Control**—Industrial Quality Control. \$10 m American Society for Quality Control, Inc, 161 W Wisconsin Av, Milwaukee 3
- Inland Ptr**—Inland Printer. \$5 m Maclean-Hunter Pub. Corp, 79 W Monroe St, Chicago 3
Merged with American Printer and Lithographer, November, 1958
- Inst E E Proc**—Proceedings of the Institution of Electrical Engineers. The Institution, Savoy Place, Victoria Embankment, London, W.C. 2
Published in 2 parts: pt A, Power Engineering, bi-m (F); pt B, Radio and Electronic Engineering (including Communication Engineering) bi-m (Ja)
- Inst Mech Eng Proc**—Proceedings of the Institution of Mechanical Engineers, separate papers Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W. 1
- Inst Metals J**—Journal of the Institute of Metals. 180s m Institute of Metals, 4 Grosvenor Gardens, London, S.W. 1
- Inst Pet J**—Journal of the Institute of Petroleum. £4 14s 6d, m Institute of Petroleum, 61 New Cavendish St, London, W. 1
- Inst Radio Eng Proc**—Proceedings of the Institute of Radio Engineers. \$18 m Institute of Radio Engineers, Inc, 1 E 79th St, New York 21
- Instrument Soc Am J**. See I S A J
- Instruments & Automation**—Instruments and Automation. \$4 m Instruments Pub. Co, Inc, 845 Ridge Av, Pittsburgh 12, Pa.
- Iron Age**—Iron Age. \$15 w Chilton Co, Inc, Chestnut & 56th Sts, Philadelphia 39
- Iron & Steel Eng**—Iron and Steel Engineer. \$7.50 m Association of Iron and Steel Engineers, 1010 Empire Bldg, Pittsburgh 22
- Iron & Steel Inst J**—Journal of the Iron and Steel Institute. £10 m Iron and Steel Institute, 4, Grosvenor Gardens, London, S.W. 1

- J Aero/Space Sci**—Journal of the Aero/Space Sciences. \$15 m Institute of the Aeronautical Sciences, Inc. 2 E 64th St, New York 21
- J Aeronautical Sci**—Journal of the Aeronautical Sciences. \$15 m Institute of the Aeronautical Sciences, Inc. 2 E 64th St, New York 21
Name changed to Journal of the Aero/Space Sciences July, 1958
- J Agri & Food Chem**—Journal of Agricultural and Food Chemistry. \$6 m American Chemical Society, 1155 16th St, N.W. Washington 6, D.C.
- J Ap Chem**—Journal of Applied Chemistry. £12 m Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1
- J Ap Mech**—Journal of Applied Mechanics. \$5 q American Society of Mechanical Engineers, 29 W 39th St, New York 18
- J Ap Phys**—Journal of Applied Physics. \$14 m American Institute of Physics, 335 E 45th St, New York 17
\$12 to members and associate members of the American Institute of Physics
- J Colloid Sci**—Journal of Colloid Science. \$16 bi-m Academic Press Inc, Mt Royal & Guilford Aves, Baltimore
- J Geol**—Journal of Geology. \$8 bi-m University of Chicago Press, 5750 Ellis Av, Chicago 37
- J Metals**—Journal of Metals. \$10 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. 29 W 39th St, New York 18
- J Nutrition**—Journal of Nutrition. \$22.50 m Wistar Institute of Anatomy and Biology, 36th St at Spruce, Philadelphia 4
- J Pet Tech**—Journal of Petroleum Technology. \$8 m Society of Petroleum Engineers of AIME, 800 Fidelity Union Bldg, Dallas 1
- J Res Nat Bur Stand**—Journal of Research of the National Bureau of Standards. \$5 m Superintendent of Documents, Washington 25, D.C.
- J Sci Instr**—Journal of Scientific Instruments. £6; U.S. \$17 m Institute of Physics. 47 Belgrave Square, London, S.W. 1
- Jet Propulsion**—Jet Propulsion. \$12.50 m American Rocket Society, 500 5th Av, New York 36
- Light Metal Age**—Light Metal Age. \$3 bi-m Roy Fellom, Jr, 549 W Randolph St, Chicago 6
- Lub Eng**—Lubrication Engineering. \$6 m American Society of Lubrication Engineers, 84 E Randolph St, Chicago 1
- Mach**—Machinery. \$4 m Industrial Press, 93 Worth St, New York 13
- Machine Design**—Machine Design. \$10 bi-w Penton Pub. Co, Penton Bldg, Cleveland 13
- Mag of Stand**—Magazine of Standards. \$7 m American Standards Association, Inc. 70 E 45th St, New York 17
- Manuf Chem**—Manufacturing Chemist. £2; U.S. \$12 m Leonard Hill, Ltd, Eden St, London, N.W. 1
- Marine Eng/Log**—Marine Engineering/Log. \$4 m (s-m in May) Simmons-Boardman Pub. Corp, 30 Church St, New York 7
- Materials in Design Eng**—Materials in Design Engineering. \$3 m Reinhold Pub. Corp, 430 Park Av, New York 22
Extra number published in Mid-October
- Mech Eng**—Mechanical Engineering. \$7 m American Society of Mechanical Engineers, 29 W 39th St, New York 18
- Metal Finishing**—Metal Finishing. \$5 m Metals and Plastics Publications, Inc. 381 Broadway, Westwood, N.J.
- Metal Prog**—Metal Progress. \$9 m American Society for Metals, 7301 Euclid Av, Cleveland 3
- Metallurgia**—Metallurgia, the British Journal of Metals. 30s m Kennedy Press, Ltd, 31 King St, W, Manchester 3
- Mill & Factory**—Mill & Factory. m Conover-Mast Publications, Inc, 205 E 42d St, New York 17
Price on request
- Min Cong J**—Mining Congress Journal. \$3 m American Mining Congress, 1102 Ring Bldg, Washington 6, D.C.
- Min Eng**—Mining Engineering. \$8 m American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. 29 W 39th St, New York 18
- Mod Materials Handling**—Modern Materials Handling. \$8 m Materials Handling Laboratories, Inc. 221 Columbus Av, Boston 16
- Mod Metals**—Modern Metals. \$3 m Modern Metals Pub. Co, 435 N. Michigan Av, Chicago 11
- Mod Phot**—Modern Photography. \$4 m Photography Pub. Corp, 33 W 60th St, New York 23
- Mod Plastics**—Modern Plastics. \$1 m Modern Plastics, Inc. 575 Madison Av, New York 22
- Mod Textiles Mag**—Modern Textiles Magazine. \$5 m Rayon Pub. Corp, 303 Fifth Av, New York 16
- Noise Control**—Noise Control. \$8 bi-m Noise Control, 335 E 45th St, New York 17
- Nucleonics**—Nucleonics. \$8 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Oil & Gas J**—Oil and Gas Journal. \$5 w Petroleum Pub. Co, 211 South Cheyenne Av, Tulsa, Okla.
- Op Res**—Operations Research. \$9 bi-m Operations Research Society of America, Mt Royal and Guilford Aves, Baltimore 2
- Paint Oil & Chem R**—Paint, Oil and Chemical Review. \$3 bi-w Trade Review Co, 332 W Harrison St, Oak Park, Ill.
- Paper Ind**—Paper Industry. \$3 m Fritz Publications, Inc, 431 S Dearborn St, Chicago 5
- Pet Eng**—Petroleum Engineer; Management Edition. \$6 m Petroleum Engineer Pub. Co, 800 Davis Bldg, Dallas 2
- Pet Refiner**—Petroleum Refiner. \$2 m Gulf Pub. Co, Box 2608, Houston 1, Tex.
- Phys Today**—Physics Today. \$4 m American Institute of Physics, 335 E 45th St, New York 17
- Pit & Quarry**—Pit and Quarry. \$3 m Pit and Quarry Publications, Inc, 431 S Dearborn St, Chicago 5
- Plant**—Plant. \$8 m Plant Pub. Co, St Joseph, Mich.
- Plant Eng**—Plant Engineering. \$10 m Technical Pub. Co, 308 E. James St, Barrington, Ill.
- Plastics Tech**—Plastics Technology, The Magazine of Applied Engineering. \$7 m Bill Brothers Pub. Corp, 630 Third Av, New York 17
- Plastics World**—Plastics World. \$5 m Cleworth Pub. Co, Inc. 1 River Road, Cos Cob, Conn.
- Plating**—Plating. \$5 m American Electroplaters' Society, Inc, 5800 N. Marine St, Philadelphia 41
- Power**—Power. \$5 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
- Power Apparatus & Systems**—Power Apparatus and Systems. \$8 bi-m American Institute of Electrical Engineers, 33 W 39th St, New York 18
- Power Eng**—Power Engineering. \$10 m Power Engineering, 308 E. James St, Barrington, Ill.
- Power Ind**—Power Industry. Including Industrial Power and Industry Power. \$10 m Putman Pub. Co, 111 E Delaware Place, Chicago 11
- Product Eng**—Product Engineering. \$5 w McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-September
- Prog Arch**—Progressive Architecture. \$5 m Reinhold Pub. Corp, 430 Park Av, New York 22
- Pub Roads**—Public Roads. \$1 bi-m Superintendent of Documents, Washington 25, D.C.
- Pub Works**—Public Works. \$5 m Public Works Journal Corp, 200 S Broad St, Ridgewood, N.J.
- Q S T**—QST. \$4 m American Radio Relay League, Inc, 38 La Salle Rd, West Hartford 7, Conn.
- RCA R**—RCA Review. \$2 q Radio Corporation of America, RCA Laboratories Division, Princeton, N.J.

- R Sci Instr**—Review of Scientific Instruments. \$11 m American Institute of Physics, 335 E 45th St, New York 17.
\$9 to members of scientific societies
- Radio Corp Am R**. See RCA R
- Radio-Electronics**—Radio-Electronics. \$4 m Gernsback Publications, Inc, 154 W 14th St, New York 11
- Refrig Eng**—Refrigerating Engineering Including Air Conditioning. \$5 m American Society of Refrigerating Engineers, 234 Fifth Av, New York 1
- Research**—Research, Applied in Industry. £3 5s; U.S. \$10.75 m Butterworths Publications, Inc, 88 Kingsway, London, W.C. 2
- Roads & Sts**—Roads and Streets. \$6 m Gillette Pub. Co, 22 West Maple St, Chicago 10
- Rock Prod**—Rock Products. \$3 m Maclean-Hunter Pub. Corp, 79 W Monroe St, Chicago 3
- Roy Aeronautical Soc J**—Journal of the Royal Aeronautical Society. £7 10s m Royal Aeronautical Society, 4 Hamilton Place, London, W. 1
- Rubber Age**—Rubber Age. \$5 m Palmerton Pub. Co, Inc, 101 W 31st St, New York 1
- Rubber Chem & Tech**—Rubber Chemistry and Technology. \$7.50 q American Chemical Society, Division of Rubber Chemistry, Prince and Lemon Sts, Lancaster, Pa.
- Rubber World**—Rubber World. \$5 m Bill Brothers Pub. Corp, 630 3d Av, New York 17
- S A E J**—SAE Journal. \$12 m Society of Automotive Engineers, Inc, 485 Lexington Av, New York 17
- SMPTE J**—Journal of the Society of Motion Picture and Television Engineers. \$12.50 m Society of Motion Picture and Television Engineers, 55 W 42d St, New York 36
- Safety Maint**—Safety Maintenance. \$4 m Alfred M. Best Co, Inc, 75 Fulton St, New York 38
- Sci Am**—Scientific American. \$5 m Scientific American, Inc, 415 Madison Av, New York 17
- Sewage & Ind Wastes**—Sewage and Industrial Wastes. \$7.50 m Federation of Sewage and Industrial Wastes Associations, 4435 Wisconsin Av, N.W., Washington 16, D.C.
- Soap & Chem Spec**—Soap and Chemical Specialties. \$4 m MacNair-Dorland Co, Inc, 254 W 31st St, New York 1
- Soc Automotive Eng J**. See S A E J
- Soc Dyers & Col J**—Journal of the Society of Dyers and Colourists. £5 5s m Society of Dyers and Colourists, Dean House, 19 Piccadilly, Bradford 1, Yorkshire, England
- Soc Motion Picture & Television Eng J**. See SMPTE J
- Space/Aeronautics**—Space/Aeronautics. \$10 m Conover-Mast Publications, Inc, 205 E 42d St, New York 17
Formerly Aviation Age; changed October, 1958
- Steel**—Steel. \$10 w Penton Pub. Co, Penton Bldg, Cleveland 13
- Tappi**—Tappi. \$10 m Technical Association of the Pulp and Paper Industry, 155 E 44th St, New York 16
- Tech Assn Pulp & Paper Ind**. See Tappi
- Textile Ind**—Textile Industries. \$2 m W. R. C. Smith Pub. Co, 806 Peachtree St, N.E. Atlanta 8
Extra number published in Mid-November
- Textile Res J**—Textile Research Journal. \$25 m Textile Research Institute, Inc, Publications Department, P.O. Box 625, Princeton, N.J.
- Textile World**—Textile World. \$2 m McGraw-Hill Pub. Co, Inc, 330 W 42d St, New York 36
Extra number published in Mid-July
- Tool Eng**—Tool Engineer. \$6 m American Society of Tool Engineers, 10700 Puritan Av, Detroit 38
- Traffic Q**—Traffic Quarterly. q Eno Foundation for Highway Traffic Control, Inc, Saugatuck, Conn.
Price on request
- Water & Sewage Works**—Water & Sewage Works. \$5 m Scranton Pub. Co, 185 N Wabash Av, Chicago 1
Two numbers published in September, included in annual subscription
- Water Works Eng**—Water Works Engineering. \$3 m R. H. Donnelley Corp, Business Papers Division, 305 E 45th St, New York 17
- Welding Eng**—Welding Engineer. \$3 m Welding Engineer Publications, Inc, P.O. Box 28, Morton Grove, Ill.
Extra number published in Mid-June
- Welding J**—Welding Journal. \$8 m American Welding Society, 33 W 39th St, New York 18
- Westinghouse Eng**—Westinghouse Engineer. \$2.50 bi-m Westinghouse Engineer, P.O. Box 2278, 3 Gateway Center, Pittsburgh 30
- Wire & Wire Prod**—Wire and Wire Products. \$8 m Quinn-Brown Pub. Corp, 453 Main St, Stamford, Conn.
- Wireless World**—Wireless World. £1 15s; U.S. \$5; Canada \$5 m Iliffe and Sons, Ltd, Dorset House, Stamford St, London, S.E. 1

Key to General Abbreviations

+	continued on later pages of the issue	Jl	July
abr	abridged	Mr	March
Ag	August	My	May
Ap	April	N	November
arch	architect	n s	new series
bibliog	bibliography	no	number
comp	compiled or compiler	O	October
cond	condensed	p	page
cont	continued	pl	plate
D	December	por	portrait
diag	diagram	pseud	pseudonym
ed	edited or edition or editor	pt	part
F	February	rev	revised
i	index	S	September
il	illustrations	sup	supplement
inc	incorporated	tr	translated or transla- tion or translator
Ja	January	v	volume
Je	June	yrbk	yearbook

Sample entry: **CALCULATING machines**
Load-sharing matrix witch, G. Constantine,
jr. il diag Electronics 31:118+ S 12 '58

Explanation: An illustrated article, with diagrams, on the
subject **CALCULATING machines** entitled
"Load-sharing matrix witch," by G. Con-
stantine, jr., will be found in volume 31 of
Electronics, page 118 (continued on later
pages of the same issue) the September 12,
1958 number.

Applied Science & Technology Index

(formerly INDUSTRIAL ARTS INDEX)

1958

ACL process. See Cement—Manufacture

ACTH

Structure of bovine corticotropin. C. H. Li and others. *bibliog Am Chem Soc J* 80:2587-8 My 20 '58

Studies on polypeptides; the synthesis of a pentapeptide corresponding to an amino acid sequence present in corticotropin and in the melanocyte stimulating hormones. K. Hofmann and others. *bibliog Am Chem Soc J* 80:1486-9 Mr 20 '58

ABANDONED mines. See Mines and mineral resources—Abandoned mines

ABBOTT laboratories

Career opportunities. *il Chem & Eng N* 36: 13 pt 2 Ja 27 '58

ABBREVIATIONS

See also
Symbols

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Blasting
Burns and scalds
Fires
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Dust explosions
Electricity, injuries from
Employers liability
Explosions
Machinery—Safety devices
Mine accidents
Safety devices and measures
Safety organization
Trauma

also subdivision Accidents under special subjects, e.g.

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Electric plants (central stations)
Electric utilities
Gas companies
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Steam plants

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See also

Billing
Depletion
Foundry accounting
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Cement plants
Chemical industries
Contractors
Cotton mills
Factories
Gas companies
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Lead acetate
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- Annual meeting, 132d, New York; abstracts of papers of interest to rubber industry. Rubber Age 82:311 N '57

Division of rubber chemistry

- Annual meeting, 73d, Cincinnati, May 14-16; program and abstracts of papers. Rubber Age 83:98-104 Ap '58; Rubber World 138:91-7 Ap '58
- Meeting, 73d, Cincinnati, May 14-16. Rubber Age 83:498-500 Je '58; Rubber World 138:428-31 Je '58
- Meeting, 74th, Chicago, Sept. 10-12; program and abstracts of papers. Rubber Age 83:656-62 J 1 '58; Rubber World 138:583-8+ J 1 '58
- Meeting, 74th, Chicago, Sept. 10-12. Rubber Age 84:104-6 O '58; Rubber World 139:83-6 O '58

AMERICAN concrete institute

- ACI headquarters presented a challenge in concrete. M. Yamasaki. il Am Concrete Inst J 30:418-26 O '58
- ACI's decade of progress. W. H. Price. Am Concrete Inst J 29:325-8 Ap '58
- Annual meeting, 54th, Chicago, Feb. 24-27. Am Concrete Inst J 29:sup3-11+ Ap '58
- Annual meeting, 54th, Chicago, Feb. 24-27. Eng N 160:30 Mr 6 '58; Civil Eng 28:292 Ap '58
- Annual meeting, 54th, Chicago, Feb. 24-27; program. Am Concrete Inst J 29:sup3-10 Ja '58
- Bylaws revised. Am Concrete Inst J 30:sup3-8 J 1 '58
- Cantilevered folded plate roofs ACI headquarters. C. S. Whitney. il diags Am Concrete Inst J 30:427-30 O '58
- Construction for ACI. J. Strang. il Am Concrete Inst J 30:431-8 O '58
- Regional meeting, 10th, Seattle, Nov. 5-6; abstracts of papers. Am Concrete Inst J 29:sup 13-15+ Ja '58
- Regional meeting, 11th, Detroit, Oct. 27-29; with program. Am Concrete Inst J 30:sup3-7 Ag; sup3-7 S '58

AMERICAN concrete pipe association

- Annual meeting, 50th, New Orleans, March 12-15. Eng N 160:26 Mr 27 '58

AMERICAN congress of surveying and mapping

- Annual meeting, Washington, D.C. Eng N 160:23 Ap 3 '58

AMERICAN cotton manufacturers institute

- ACMI's new president: Jones of Waverly mills. J. Campbell. Mod Textiles Mag 39:36-7+ Ap '58

Annual meeting, 9th, Hollywood, Fla. Textile

- Ind 122:95 My '58

AMERICAN cyanamid company

- Cyanamid relocates rubber group. il Rubber World 138:77 Ag '58

Research center

- New research center dedicated by American Cyanamid. il Rubber Age 82:306 N '57; Rubber World 137:274 N '57

AMERICAN die casting institute

- Annual meeting, Chicago, Sept. 17-20. Foundry 85:184+ N '57

AMERICAN drug manufacturers association

- Annual meeting. Drug & Cosmetic Ind 82:736-7+ Je '58

AMERICAN dyestuff reporter (periodical)

- Reporter reaches fortieth birthday. il Am Dyestuff Rep 46:789-92 N 4 '57

AMERICAN electroplaters society

- AES research program; progress report and summaries of research projects. il Plating 45:345-8 Ap '58

Annual meeting, 45th, Cincinnati, May 19-22.

- Plating 45:746-53 J 1 '58

Annual meeting, 45th, Cincinnati, May 19-22;

- program. Plating 45:526-31 My '58

Annual meeting, 45th, Cincinnati, May 19-22;

- with program, officers, chairmen, abstracts of papers. Metal Finishing 56:70-6 My; 60-4 J 1 '58

Annual report for the fiscal year ended,

- March 31. Plating 45:503-15 My '58

Branch delegates, boards and committees,

- branch directory, 1957-1958. Plating 45:516-24 My '58

Financial report for the fiscal year ended

- March 31. Plating 45:553-6 Je '58

AMERICAN federation of labor and Congress

- of industrial organizations

Uneasy unions watch for '58 signs and portents.

- Eng & Min J 159:129 Mr '58

AMERICAN foundrymens society

- AFS annual awards. Foundry 86:174-6 My '58

Annual meeting, Cleveland, May 19-23; program.

- Foundry 86:164-71 My '58

Castings congress and foundry show, Cleveland, May 19-23; abstracts of papers.

- Foundry 86:72-81, 168-70+ J 1; 138+ Ag '58

Foundry show; list of exhibitors. Foundry

- 86:177-9 My '58

AMERICAN gas association

- A.G.A. accident prevention committee, 10th annual conference, Louisville, Sept. 15-17; with program. Am Gas Assn Mo 40:27-8 J 1 Ag; 5-7 O '58

A.G.A.-S.E.G.A. 2d annual textile symposium,

- Greensboro, N.C. Sept. 8-9. Am Gas Assn Mo 40:31-2+ O '58; Gas Age 122:18-19 O 16 '58

Annual meeting, 39th, St Louis, Oct. 7-9.

- Am Gas Assn Mo 39:2-22+ N '57; Pub Util 60:757-60 N 7 '57; Gas Age 120:11-22 O 31 '57

Annual meeting, 40th, Atlantic City, Oct. 13-15; program. Am Gas Assn Mo 40:2-8+ J 1 Ag '58

AMERICAN gas association—Continued

Enthusiasm reigns at safety workshops. Am Gas Assn Mo 40:20-1 Mr '58
 General management section conference, Washington, March 31-April 2. Am Gas Assn Mo 40:29-31+ My '58
 Home service workshop, Minneapolis, Jan. 6-8. Il Am Gas Assn Mo 40:6-9+ F '58
 Managing and executive committees members. Am Gas Assn Mo 40:32-3 Ja '58
 Operating section, Distribution, production and transmission conference, New York, May 5-9; abstracts of papers. Gas Age 121: 13-20+ My 29 '58
 Operating section's distribution production and transmission conference, New York, May 5-9. Am Gas Assn Mo 40:27-31 Je '58
 Organize management committees. Am Gas Assn Mo 40:20-1+ Ja '58
 Sales conference on industrial and commercial gas, Milwaukee, April 8-10. Am Gas Assn Mo 40:32-3 My '58

AMERICAN gear manufacturers association

Annual meeting, 42d. Hot Springs, Va. June 1-4. Iron Age 181:67 Je 12 '58; Automotive Ind 119:51+ J1 '58
 Annual meeting, 42d. Hot Springs, Va. June 1-4; with abstracts of papers. Mach 64:171-2 J1 '58
 Semi-annual meeting, Chicago, Oct. 27-30. Am Mach 101:180 N 18 '57; Mach 64:203 D '57

AMERICAN helicopter society

Annual forum, 14th, Washington, April 16-19. Aero/Space Eng 17:15 Ag '58; Aircraft Eng 30:180 Je '58

AMERICAN hospital association

American hospital association's report on prevention and control of staphylococcal infections in hospitals. Am J Pub Health 48: 1071-4 Ag '58

AMERICAN institute of architects

A.I.A. and preservation. Arch Rec 122:16 D '57
 A.I.A. gold medal to John Root. Arch Rec 123:25+ Je '58
 Annual meeting, Cleveland, July 7-11. Arch Forum 109:6-7 Ag '58; Arch Rec 124:9+ Ag '58; Eng N 161:26 J1 17 '58

AMERICAN institute of chemical engineers

Annual meeting, Chicago; discussion sessions. Chem Eng Prog 54:154+ F '58
 Golden jubilee meeting, Philadelphia, June 22-27. Control Eng 5:32+ S '58
 Golden jubilee meeting, Philadelphia, June 22-27; program. Chem Eng Prog 54:107-10+ My '58
 National meeting, Salt Lake City, Sept. 21-24; program. Chem Eng Prog 54:98-100+ J1; 100+ Ag '58
 Our professional heritage. Il Chem Eng Prog 54:49-76 My '58
 Roundup on anniversary meeting; jubilee report. Chem Eng Prog 54:121-4 J1; 123-6 Ag '58

AMERICAN institute of electrical engineers

AIEE fellows elected. Elec Eng 77:647-9, 757-61 J1-Ag '58
 Donald A. Quarles, honorary member presentation. W. J. Barrett. Elec Eng 77:787-8 S '58
 Fall general meeting, Chicago, Oct. 7-11; with abstracts of papers. Elec Eng 76:1082+ D '57
 Fall meeting, Chicago; abstracts of papers. Elec World 148:65-9 N 4 '57
 Functional plan; report clarifying AIEE plan. W. J. Barrett. Elec Eng 77:119-21 F '58; Same. Mech Eng 80:57-9 F '58
 Institute reorganization discussed at forum of technical committee chairmen, New York, Feb. 6. Elec Eng 77:349-52 Ap '58
 Officers departments, and committees for 1958-59. Elec Eng 77:870-88 S '58
 Pacific general meeting, Sacramento, Aug. 19-22. Elec World 150:97+ S 22 '58
 Report of the board of directors, May 1, 1957-April 30, 1958. Elec Eng 77:740-3 Ag '58
 Summer general meeting and air transportation conference, Buffalo, June 22-27. Elec Eng 77:828-33, 839-43 S '58
 Summer general meeting, Buffalo, June 22-27. Elec World 150:37 J1 7; 54-5+ J1 28 '58
 Unity of the engineering profession. W. J. Barrett. Power Ind 74:15-16 Ja '58
 Winter general meeting, 46th, New York; with abstracts of papers. Elec World 149: 62-4 F 17; 71-82 Mr 3 '58
 Winter general meeting, New York, Feb. 2-7; program. Elec Eng 77:67-72+ Ja '58
 Winter general meeting, New York, Feb. 2-7; with abstracts of papers. Elec Eng 77:342-6 Ap '58

Winter meeting, New York. Power Eng 62: 96-7 Ap '58

Year of progress; presidential address. W. J. Barrett. Elec Eng 77:777-80 S '58

AMERICAN institute of mining, metallurgical and petroleum engineers

AIME awards and honors presented at annual banquet. J Metals 10:200-1 Mr '58
 Annual meeting, New York. J Metals 10:358-69 My '58
 Annual meeting, New York, Feb. 16-20; with abstracts of papers. Min Eng 10:601-3 My '58
 Annual meeting, New York, Feb. 16-20; with abstracts of papers on cement, lightweight aggregates, gravel. Pit & Quarry 50:130-2+ Ap '58
 Blast furnace, coke oven, and raw materials committee, National open hearth steel committee, members; annual conference programs; committee reports. J Metals 10:242-3+ Ap '58
 Map, location, and identification of local sections. Min Eng 10:812-13 J1 '58
 National open hearth blast furnace, coke oven, and raw materials conference, Cleveland, April 14-16. J Metals 10:425-7+ Je '58
 Pacific southwest mineral industry conference, San Francisco, March 27-29. Rock Prod 61:89+ Je '58

Coal division

Annual meeting, New York, Feb. 17-20; with abstracts of papers. Coal Age 63:63+ Mr '58

Industrial minerals division

Proposed bylaws. Min Eng 10:114+ Ja '58

Institute of metals division

Annual meeting, New York, Feb. 16-20; abstracts of papers. J Metals 10:92-104 F '58
 Institute of metals division presents purposes and programs; editorial. W. R. Hibbard, jr. J Metals 9:1423 N '57

Metallurgical society

Annual meeting, New York, Feb. 16-20; program. J Metals 10:60-7 Ja '58
 Annual report of the secretary. R. W. Shearman. J Metals 10:260-1 Ap '58
 Fall meeting, Cleveland, Oct. 26-30; program and abstracts of papers. J Metals 10:567-90 S '58
 Iron and steel division electric furnace steel committee 15th annual conference, Pittsburgh, Dec. 4-6; with abstracts of papers. Foundry 86:161-2 F '58
 New program for publications of the metallurgical society. W. J. Harris, jr. J Metals 10:15 Ja '58

Minerals beneficiation division

Proposed bylaws. Min Eng 10:115+ Ja '58

Mining and exploration division

Annual meeting, New York; with abstracts of papers. Eng & Min J 159:114-18 Mr '58

Society of mining engineers

Annual meeting, 1st, Tampa, Oct. 15-18; with abstracts of papers. Rock Prod 60:124+ D '57
 Annual meeting, New York, Feb. 16-20; abstracts of papers and program. Min Eng 10:41-64 Ja '58
 SME education committee and its future. M. E. Wadsworth. Min Eng 10:673-4 Je '58

Society of petroleum engineers

Annual fall meeting, Dallas, Oct. 6-9. J Pet Tech 10:35 Mr '58; Pet Eng 29:B 126 N '57
 Fall meeting, 33d, Houston, Oct. 5-8; program and abstracts of papers. J Pet Tech 10:45-8, 50-60 S '58
 Membership directory, 1958. J Pet Tech 10: sup 1-127 Je '58
 Participation of Society of petroleum engineers in new United engineering center. J. B. Alford. Il J Pet Tech 10:29-30 J1 '58

AMERICAN institute of physics

Annual report, 1957. Phys Today 11:15-21 Je '58

AMERICAN institute of plant engineers

Annual meeting, 4th, Chicago, Jan. 26. Plant Eng 12:144+ Mr '58

AMERICAN institute of steel construction

National engineering conference, 10th, St Louis. Eng N 160:23 Ap 24 '58

AMERICAN iron and steel institute

Function of the product manuals. W. C. Clements. Wire & Wire Prod 33:877-8+ Ag '58

AMERICAN Journal of physics (periodical)

Some characteristics of the literature used by American journal of physics authors. M. W. Colmer and S. Adams. *Am J Phys* 26:397-8 S '58

AMERICAN machine tool distributors association

Annual meeting, 33d, Cleveland, Sept. 22-24. *Am Mach* 101:156 O 7 '57; *Mach* 64:178-9 N '57

Spring meeting, 34th, New Orleans, March 10-11. *Am Mach* 102:103-4 Mr 24 '58

AMERICAN medical association

American medical association study confirms 1951 fluoridation approval. *Water Works Eng* 111:135 F '58

AMERICAN mining congress

Annual business meeting, New York, Dec. 2. *Min Cong J* 44:38-40 Ja '58

Coal division annual conference, Pittsburgh, Nov. 15; with committee reports. *Min Cong J* 44:57-61 Ja '58

Coal division annual meeting, Cincinnati, May 4-7; abstracts of papers. *Coal Age* 63:124-9+ Je '58; *Min Cong J* 44:59-69 Je '58

Coal division annual meeting, Cincinnati, May 5-7; program, committee members. *Min Cong J* 44:59-63 Mr '58

Meeting, Salt Lake City, Sept. 9-12. *Rock Prod* 60:133 N '57

Metal mining and industrial minerals convention and exposition, San Francisco, Sept. 22-26; committees, program, exhibitors. *Min Cong J* 44:42-63 Ag '58; *Eng & Min J* 159:83-112+ Ag '58

AMERICAN oil chemists society

Annual meeting, 49th, Memphis, Tenn. April 21-23. *Am Oil Chem Soc J* 35:sup21-32 Je '58

Fall meeting, 31st, Cincinnati, Sept. 30-Oct. 2; with abstracts of papers. *Soap & Chem Spec* 33:48-50+ N '57

Fall meeting, 32d, Chicago, Oct. 20-22; program. *Am Oil Chem Soc J* 35:sup 18-20+ O '58

Report of the color committee, 1957-1958. *Am Oil Chem Soc J* 35:508-9 O '58

Report of the examination board, 1957-58. *Am Oil Chem Soc J* 35:287 Je '58

Report of the Journal advertising committee, 1957-58 and treasurer's report, 1957. *Am Oil Chem Soc J* 35:sup24+ JI '58

Report of the Smalley committee, 1957-58. *Am Oil Chem Soc J* 35:270-1 Je '58

Report of the uniform methods committee, 1956-57. *Am Oil Chem Soc J* 35:138-9 Mr '58

Report of the uniform methods committee, 1957-58. *Am Oil Chem Soc J* 35:370-1 JI '58

AMERICAN paper and pulp association

Annual meeting, 81st, New York, Feb. 16-21. *Paper Ind* 39:1007-8+ Mr '58

AMERICAN petroleum institute

API board tackles big job. *Pet Eng* 29:A30-2 N '57

A.P.I. honors Lewis. *Oil & Gas J* 55:70 O 23 '57

A.P.I. petroleum composition research; a soul searching. H. W. Field and C. E. Headington. *Oil & Gas J* 55:163-5 N 18 '57

Annual meeting, Chicago. *Oil & Gas J* 55:129-46, 159-66+ N 18 '57

Annual meeting, 37th, Chicago. *Pet Eng* 29:B 103-9 D '57

Division of refining 23d midyear meeting, Los Angeles, May 12-16; abstracts of papers. *Pet Eng* 30:C7-10+ Je '58

Geological research and the American petroleum institute. C. I. Alexander. *Oil & Gas J* 55:159-62 N 18 '57

AMERICAN pharmaceutical manufacturers association

Annual meeting, 51st, Boca Raton, Fla. *Drug & Cosmetic Ind* 82:600-1+ My '58

Mid-year meeting. *Drug & Cosmetic Ind* 82:38-9+ Ja '58

AMERICAN physical society**Division of fluid dynamics**

Meeting, 10th, Bethlehem, Pa., Nov. 25-27. *Phys Today* 11:22-4 Je '58

AMERICAN poultry industries, Institute of. See Institute of American poultry industries**AMERICAN power conference**

Annual meeting, Chicago, March 26-28; program; list of manufacturers' representatives available during conference. *Power Eng* 62:74-6 Mr '58

Annual meeting, 20th, Chicago, March 26-28; abstracts of papers. *Combustion* 29:51-4 Ap; 61-5 My '58; *Plant* 17:57-60 My '58

Conference, 20th, Chicago, March 26-28. *Power Eng* 62:78-9 My '58

AMERICAN public health association

Annual meeting, 85th, Cleveland; abstracts of papers. *Am J Pub Health* 48:785-94 Je '58

Annual meeting, 86th, St Louis, Oct. 27-31; program, list of exhibitors, nominations for section offices. *Am J Pub Health* 48:1214-72 S '58

Committees, 1957-1958. *Am J Pub Health* 48:648-72 My '58

Report of the chairman of the executive board to the governing council 1956-1957. *Am J Pub Health* 48:235-46 F '58

AMERICAN public power association

Annual meeting, 15th, New Orleans. *Elec World* 149:44-5 Je 2 '58

Engineering and operation workshop, Chattanooga, Tenn; abstracts of papers. *Elec World* 149:37 Mr 31 '58

AMERICAN public works association

Annual meeting, 63d, Philadelphia, Sept. 22-25. *Pub Works* 83:125-6+ N '57

Annual meeting, 64th, Kansas City, Sept. 28-Oct. 1; program. *Pub Works* 89:143-4+ S '58

News bulletins. Published in monthly numbers of Public works

AMERICAN pulp and paper mill superintendents association

Annual meeting, 39th, Boston. *Paper Ind* 40:235-7 JI '58

AMERICAN radio relay league

Another peek at Propagation research project. M. P. Southworth. *il Q S T* 42:42-4 Ag '58

AMERICAN railway engineering association

Annual meeting, 57th, Chicago. *Eng N* 160:22 Mr 20 '58

AMERICAN road builders association

Annual meeting, 56th, Washington. *Eng N* 160:21-2 Ja 30 '58; *Civil Eng* 28:218-19 Mr '58; *Roads & Sts* 101:87-90 Mr '58

Annual meeting, 56th, Washington, Jan. 20-23. *Pit & Quarry* 50:50 Mr '58

AMERICAN rocket society

Annual meeting, 12th, New York. *Mech Eng* 80:126-7 Ja '58

Meeting, Detroit. *Product Eng* 29:24-5 S 29 '58; *Steel* 143:39 S 22 '58

Meeting, Los Angeles. *Iron Age* 181:75 Je 26 '58

AMERICAN society for metals

ASM to start tech center. *il Steel* 142:80 Mr 10 '58

A.S.M.'s new headquarters. W. H. Eisenman. *il diag Metal Prog* 73:67-9 My '58

Annual meeting, 39th; abstracts of papers. *Engineer* 204:934-5 D 27 '57; *Metal Prog* 72:142+ N '57

New home. *Product Eng* 29:28+ Ap 7 '58

Southwestern metal exposition, 1st, Dallas, May 12-16; abstracts of papers. *il Metal Prog* 73:96E-96H Je '58

AMERICAN society for quality control

Annual meeting, 12th, Boston, May 26-28; with program and list of exhibitors. *Ind Quality Control* 14:19-25 Ap; 15:21-7 JI '58

Textile division annual meeting, Clemson, S.C.; abstracts of papers. *Textile World* 108:49-61+ Ap '58

AMERICAN society for testing materials

ASTM and the refining industry. H. W. Ferguson. *A S T M Bul* p24-6 My '58

ASTM and the steel industry; two case histories. N. P. Veeder. *A S T M Bul* p57-8 JI '58

Annual meeting of committee D-12 on soaps and other detergents, New York, March 10-11. *Soap & Chem Spec* 34:143+ Ap '58

Annual meeting, 61st, Boston. *Eng N* 161:25 JI 3 '58

Annual meeting, 61st, Boston, June 22-27; with program and abstracts of papers. *ASTM Bul* p 18-36 Ap; 5-37+ JI '58

Annual meeting, 61st, Boston; with abstracts of papers of interest to rock products industry. *Pit & Quarry* 51:84-7 Ag '58

Committee B-8 semi-annual meeting, St Louis, Feb. 12-18. *Plating* 45:340-1+ Ap '58

Committee D-11 on rubber and rubberlike materials annual meeting, Boston, June 25-27. *Rubber Age* 83:339-46 Ag '58; *Rubber World* 138:744-50 Ag '58

Continuing and vital challenge. R. T. Kropf. *A S T M Bul* p 12-13 JI '58

Research + engineering know how = standards; ASTM in '57. *A S T M Bul* p5-14 Ja '58

AMERICAN society of body engineers

Annual meeting, 12th, Detroit; abstracts of papers. *Automotive Ind* 117:48-50+ N 15 '57

AMERICAN society of civil engineers

Annual meeting, Chicago, Feb. 24-28; with abstracts of papers. *Civil Eng* 28:273-9 Ap '58

AMERICAN society of civil engineers—Cont.

- Annual meeting, New York, Oct. 14-18; with abstracts of papers. Civil Eng 27:806-16 N '57
- Annual meeting, New York, Oct. 13-17; program. Civil Eng 28:673-82 S '58
- Challenges of the future; presidential address. L. R. Howson. Civil Eng 27:755-6 N '57
- Economic advancement objectives; final report of the Task committee on study of economic advancement objectives of the board of direction. Am Soc C E Proc 83 [BD 2 no 1490]:1-19 D '57
- Meeting, Chicago. Eng N 160:23-9 Mr 6 '58
- Meeting, Chicago, Feb. 24-28; program. Civil Eng 28:33-42 Ja '58
- Meeting, Portland, June 23-27; program. Civil Eng 28:353-60 My '58
- Meeting, Portland, Ore. Civil Eng 28:599-606 Ag '58; Eng N 161:21-3 Jl 3 '58
- Report of Task committee on professional education. Civil Eng 28:111-23 F '58
- AMERICAN society of heating and air conditioning engineers**
- ASHAE-ASRE merger. E. R. Queer. Heating-Piping 30:146 Mr; 134 Ap; 158 My; 138 Je '58
- ASHAE technical advisory committees; regulations. B. H. Jennings. Heating-Piping 30:142 Ap '58
- Annual meeting, Pittsburgh. Eng N 160:25 Ja 30 '58
- Annual meeting, 64th, Pittsburgh, Jan. 27-29. Heating-Piping 30:173-9 Mr; 161-6 Ap '58; Air Cond Heat & Ven 55:91-3 Mr '58
- Honors and awards; present status of program. P. B. Gordon. Heating-Piping 29:122 D '57
- Proposed merger with ASRE. C. F. Holske. Refrig Eng 66:64 Jl '58
- Report to members on the proposed merger of ASRE and ASHAE. H. F. Spoehrer. Refrig Eng 66:51-2 Mr; 50-1 Je '58
- Semiannual meeting, Minneapolis. Heating-Piping 30:158-63 Ag '58
- Society and legislation. P. B. Gordon. Heating-Piping 29:164 N '57
- Some questions and answers regarding the proposed ASRE-ASHAE merger. Refrig Eng 66:46-7 Ag '58
- AMERICAN society of industrial designers**
- Annual meeting, Ojai Valley, Oct. 17-20. Product Eng 28:28 N 4 '57
- AMERICAN society of lubrication engineers**
- Annual meeting, 13th, Cleveland, April 22-24; abstracts of papers. Lub Eng 14:168-79 Ap '58
- Financial statement, year ended Dec. 31, 1957. Lub Eng 14:278-9 Je '58
- Reorganization of committee structure; special report. Lub Eng 14:180+ Ap '58
- AMERICAN society of mechanical engineers**
- ASME approves group-insurance program for members. Mech Eng 80:141-3 Ap '58
- ASME elects to grade of Fellow member. Mech Eng 79:1205-7 D '57; 80:146-7 Mr; 140-1 Ap; 145-7 Je '58
- ASME honors engineers; tribute to C. E. Davies, retiring secretary, biographies of recipients of the honorary membership, the awards, and medals at the 1957 annual meeting. Mech Eng 80:88-96 Ja '58
- ASME to make available translation of Russian scientific literature. Mech Eng 80:133 Mr '58
- Annual meeting, New York, Dec. 1-6. Power Eng 62:90-1 Ja '58
- Annual meeting, New York, Dec. 1-6; abstracts of papers. Am Mach 101:156-7 D 16 '57; Combustion 29:47-52 D '57; 56-9 Ja '58; Mech Eng 80:96-116 Ja '58
- Annual meeting, New York, Dec. 1-5; program. Mech Eng 80:115-24 O '58
- Annual report fiscal year Oct. 1, 1956-Sept. 30, 1957. Il map Mech Eng 80:1-29 sec 2 Ja '58
- Fall meeting, Hartford, Sept. 22-25. Mech Eng 79:1086-90 N '57
- 1957 annual meeting papers availability list. Mech Eng 80:119-23 Ja '58
- Petroleum mechanical engineering conference, 12th, Tulsa, Sept. 22-25. Mech Eng 79:1094-9 N '57
- Power conference, 1st, Allentown, Oct. 20-23. Mech Eng 79:1192-4 D '57
- Semi-annual meeting, Detroit, June 15-19. Mech Eng 80:110-16 Ag '58
- Semi-annual meeting, Detroit, June 15-19; program. Mech Eng 80:130-4 My '58

Technology executives conference seeks to improve services to members. Mech Eng 80:136-40 Mr '58

Woman's auxiliary 34th annual meeting, New York, Dec. 1-6. Mech Eng 80:138-41 Ja '58

Gas turbine power division

Annual meeting, Washington, March 2-6. Mech Eng 80:132-5 Ap '58

Maintenance and plant engineering division

Annual meeting, Pittsburgh, April 14-15; with abstracts of papers. Plant 17:61-3 Je '58

Oil and gas power division

Annual conference and exhibit, 30th, Philadelphia, May 12-15. Mech Eng 80:100-3 Jl '58

Rubber and plastics division

Annual meeting, New York, Dec. 4-5; with abstracts of papers. Rubber Age 82:694 Ja '58; Rubber World 137:569-70 Ja '58

Meeting, Detroit, June 17; abstracts of papers. Rubber Age 83:678-9 Jl '58; Rubber World 138:754 Ag '58

AMERICAN society of naval engineers

A.S.N.E. award. Am Soc Naval Eng J 70:7-8 F '58

AMERICAN society of perfumers

Annual symposium on perfumery, 4th, New York, March 20. Am Perfumer & Aromatics 71:38-9 Ap '58

AMERICAN society of photogrammetry

Annual meeting, Washington, D.C. Eng N 160:23 Ap 3 '58

AMERICAN society of planning officials

Annual National planning conference, 49th, Washington, D.C. Arch Rec 124:34+ Jl '58

AMERICAN society of refrigerating engineers

ASHAE-ASRE merger. E. R. Queer. Heating-Piping 30:146 Mr; 134 Ap; 158 My; 138 Je '58

ASRE financial statements, Sept. 1, 1956, through Aug. 31, 1957. Refrig Eng 65:62 D '57

Annual meeting, 54th, Minneapolis, June 23-25; technical program, abstracts of papers. Refrig Eng 66:40-9 Je; 50-5 Jl '58

By-laws (adopted by vote of membership and council, Nov. 14, 1957). Refrig Eng 66:55-9 Ja '58

Program committee adopts new plan for national meetings. F. Y. Carter. Refrig Eng 66:46+ Ap '58

Proposed merger with ASHAE. C. F. Holske. Refrig Eng 66:64 Jl '58

Report to members on the proposed merger of ASRE and ASHAE. H. F. Spoehrer. Refrig Eng 66:51-2 Mr; 50-1 Je '58

Semiannual meeting, 44th, Chicago, Nov. 14-16; program and abstracts of papers. Refrig Eng 65:51-62 O; 51+ N; 45-9 D '57

Some questions and answers regarding the proposed ASRE-ASHAE merger. Refrig Eng 66:46-7 Ag '58

Technical committees pace engineering progress. T. J. Ammel. Refrig Eng 66:55+ My '58

AMERICAN society of tool engineers

Annual meeting, Philadelphia, May 1-8. Mag of Stand 29:232-3 Ag '58

Annual meeting, 26th, Philadelphia, May 1-8; program. Tool Eng 40:132-5 Mr; 140-59 Ap '58

Annual meeting, 26th, Philadelphia, May 1-8; with abstracts of papers. Tool Eng 40:122-44 Je '58

Annual meeting, 26th, and tool show, Philadelphia, May 1-8. Automotive Ind 118:53+ Je 15 '58

Annual meeting, 26th, and tool show, Philadelphia, May 1-8; with program. Steel 142: 153-4+ Ap 21; 50 My 12 '58

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- Buildings

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- Clinics

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- College architecture

- Community centers

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- Convents

- Department stores

- Embassy buildings

- Exhibition buildings

- Factories

- Hillside architecture

- Interior decoration

- Library buildings

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- Medical buildings

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- Municipal centers

- Museums

- Naval architecture

- Nurses homes

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- Office buildings

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- Shelters

- Space (architecture)

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- Store buildings

- Studios

- Tennis courts, Indoor

- Theaters

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- Berlin

- Bogotá, Colombia

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- Havana

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- Milan

- New Orleans

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Marble

Masonite

Masonry

Mastics (asphalt composition, etc.)

Mortar

Plaster and plastering

Plywood

Roofing

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Iron industry and trade
Mines and mineral resources
Paleontology
Paper and pulp mills
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Petroleum industry and trade
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Chemical engineering

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Electric apparatus industry

Electric plants (central stations)

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Electronics industry

Engineering education

Engineering research

Equipment industries

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Gas, Natural—Pipe lines

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Hydroelectric plants

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Mineral industries

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Moving picture industry

Paint industry and trade

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Steel industry and trade

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Molecular compounds
Neutralization
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 Chromatographic analysis
 Colorimetric analysis
 Combustion analysis
 Dye analysis
 Electrochemical analysis
 Fluorometric analysis
 Gas analysis
 Indicators and test papers
 Metallurgical analysis
 Microanalysis
 Mineralogical analysis
 Oil analysis
 Plants—Chemical analysis
 Precipitation (chemistry)
 Radiochemical analysis
 Sampling
 Soil analysis
 Spectrum analysis
 Sugar analysis
 Textile analysis
 Trace analysis
 Turbidimeters
also subdivision Analysis under special subjects, e.g.
 Ashes
 Benzenesulfonates
 Carbon dioxide
 Cellulose
 Chlorides
 Flue gas
 Formaldehyde
 Fuel
 Gasoline
 Glass
 Hydrocarbons
 Niobium
 Oil fuel
 Paper
 Pentosans
 Petroleum
 Sewage
 Silver solder
 Steel
 Sulfur oxides
 Sulfuric acid
 Tantalum
 Trade waste
 Uranium
 Urine
 Water
 Wood
 Wood pulp

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Volumetric analysis

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Alcohols
Alkaloids
Amines
Aromatic compounds
Carbohydrates
Carbon
Cyclic compounds
Diazo compounds
Essential oils
Esters
Hydrocarbons
Methyl group
Organometallic compounds
Proteins
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Adhesion
Azeotropes
Catalysis
Chemical equilibrium
Colloids
Compressibility
Coordination (chemistry)
Crystallization
Crystallography
Diffusion
Dissociation
Equation of state
Evaporation
Flocculation
Ions
Liquids
Mass (chemistry)
Molecular volume
Molecular weights
Phase rule and equilibrium
Photochemistry
Precipitation (chemistry)
Solids
Solubility
Stoichiometry
Thermodynamics
Thixotropy
Valence
Vapor pressure
Wave mechanics

CHEMISTRY, Technical*See also*

Alcohol
Alkalies
Bleaching

Calcination
Cellulose
Chemical industries
Chemicals
Clay
Corrosion and anti-corrosives
Cosmetics
Cotton—Chemistry
Dyes and dyeing—Chemistry
Electrochemistry
Extraction processes
Filters and filtration (technical chemistry)
Fuel
Glass manufacture
Paper
Paper making
Pesticides
Petroleum—Chemistry
Petroleum distillation
Petroleum refining
Pottery
Refractory materials
Rubber
Rubber—Chemistry
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Sampling
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Textile chemistry
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Textile industry
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Electronics industry

Machine tool industry

Mines and mineral resources

Moving picture industry

Petroleum

Petroleum industry and trade

Public health

Television broadcasting

Industries and resources

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 Kaolinite
 Laterite
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Dyes and dyeing

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Aggregates

Air preheaters

Airplanes

Airports—Runways

Automobiles

Bearings, Ball

Belting, Conveyor

Blowers

Boiler cleaning

Castings

Crystals

Electronic apparatus and appliances

Factories

Food factories

Heat exchangers

Looms

Lubrication and lubricants (cutting and grinding)

Motor trucks

Moving picture films

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Dormitories

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Coacervation

Collagen

Dispersion

Electrophoresis

Films

Flocculation

Gelatin

Liesegang rings

Micelles

Particles

Silica gel

Surface active substances

Suspensions

Thixotropy

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Geology

Oil companies

Petroleum equipment industries

Petroleum industry and trade

Petroleum pipe lines

Radio communication

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Dichroism

Discoloration

Dyes and dyeing

Light, Colored

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Pigments

Red

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also subdivision Color under special subjects, e.g.

Concrete

Cotton

Enamel and enameling

Food

Glass

Lacquer and lacquering

Oils and fats

Paper

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Water

Wool

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Electrohydraulic control

Electropneumatic control

Governors (machinery)

Graphic panels

Hydraulic control

Liquid level control

Machinery, Automatic

Magnetic control

Pneumatic control

Servomechanisms

Telemetering

Temperature—Regulation

Vacuum tubes—Control uses

also subdivisions Control and Control equipment under special subjects, e.g.

Air conditioning equipment

Airplane engines

Airplanes

Airplanes, Military

Atomic power plants

Barges, Oil well drilling

Blast furnaces

Bleacheries

Boilers

Carpet factories

Cars, Subway

Chemical plants

Concrete plants

Cranes, derricks, etc.

Digesters (paper making)

Electric furnaces, Steel making

Electric motors, Alternating current

Electric motors, Direct current

Electric plants (central stations)

Elevators

Feeders

Furnaces, Forging

Gas burners

Gas stoves

Gas turbines

Gear cutting machines

Guided missiles

Heat treatment shops

Helicopters

Lapping machines

Lathes

Machine tools

Machinery

Magnetic instruments

Milling machines

Nailing machines

Nuclear reactors

Open hearth furnaces

Paper making machinery

Petroleum refineries

Power plants

Presses

Printing presses

Pumping machinery

Pumping machinery, Electric

Punching machinery

Radio telescope

Reactors, Chemical

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also subdivision Cooling under special subjects, e.g.

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COOPERATIVE associations

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Electrolytic corrosion

Erosion of metals

Galvanizing

Gas, Natural—Condensate wells—Corrosion problem

Metal coating

Metal protection

Paint, Protective

Tarnishing of metals

Water purification—Corrosion control

Water supply—Corrosiveness

also subdivision Corrosion under special subjects, e.g.

Aluminum

Automobiles

Boilers

Cadmium

Chemical plants

Coal products plants

Copper

Heat exchangers

Lead

Magnesium

Nickel

Oil tanks

Petroleum—Well tubing

Petroleum refineries

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Titanium

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- Chemical plants
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- Delay devices
- Diesel engines
- Electric circuit breakers
- Electric power plants (central stations)
- Electric transformers
- Electronic circuits
- Heat exchangers
- Hydroelectric plants
- Machine tools
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Heart—Diseases
Infectious diseases
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- Servomechanisms
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- Vacuum tubes—Control uses
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- Voltage regulation
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- Airplanes
- Airplanes. Military
- Cars. Subway
- Electric generator sets
- Electric motors
- Electric motors, Alternating current
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- Electric substations—Protection
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Cigaret factories
Concrete plants
Cotton mills
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Electric utilities
Food factories
Gas companies
Gasoline companies
Hosiery mills
Hospitals
Hotels
Knitting mills
Motor bus lines
Munition factories
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- See also subdivision Europe under special subjects, e.g.
Atomic power plants
Automobile industry and trade
Chemical research
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Petroleum pipe lines
Plastics industries
Rubber industry and trade
Soap industry and trade
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Technology
Television broadcasting

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Reservoirs—Evaporation control
Sublimation
Vaporization
Volatility

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Expert evidence
Identification
Photographs as evidence

EVOLUTION

See also

Man—Origin and antiquity

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Physics—Examinations

EXAMINATIONS, Physical. See Physical examinations

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Mining machinery
Road making machinery
Rock drills
Scrapers
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Trenching machinery
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Excavating machinery
Street openings
Subways—Construction
Trenches
Tunnel shields
Tunnels and tunneling

EXCAVATION, Subaqueous

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See also

Blasting, Subaqueous
Bridges—Foundations and piers
Dredging
Gas, Natural—Well drilling, Subaqueous
Petroleum—Well drilling, Subaqueous
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EXCHANGES**See also**

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Industrial management
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Organization in industry
Supervisory workers

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Dust removal
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Aeronautics

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Electric apparatus and appliances

Electronic apparatus and appliances

Foundry machinery

Furniture industry and trade

Gas industry

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Rock products industry

Science

Scientific apparatus and instruments

Sound—Apparatus

Television apparatus

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Tools

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Electric utilities—Exhibits

Medical exhibits

Paper industry and trade—Exhibits

Petroleum industry and trade—Exhibits

Safety exhibits, Traveling

EXHIBITS, Traveling

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 Chemical plants
 Drug factories
 Factory management
 Flour mills
 Food factories
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 Conveying machinery
 Equipment industries
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 Machinery, Replacement of
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 Chemical plants—Maintenance and repair
 Factories—Painting
 Hoisting machinery—Maintenance and repair
 Maintenance departments
 Paint, Protective
 Steel works—Maintenance and repair

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 Maintenance departments—Records
 Payrolls—Records
 Production control
 Punched card system

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Visitors

See Visitors

Water supply

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 Guided missile factories—Costs
 Material handling—Costs
 Quantities (in production)

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See also

Assembling methods
 Bonus system
 Bulletin boards
 Control boards
 Control charts
 Efficiency, Industrial
 Employees
 Employment management
 Employment systems
 Engineering departments
 Factories—Cleaning
 Factories—Maintenance and repair
 Factories—Records
 Factory costs
 Foremen
 Foremen conferences
 Hygiene, Industrial
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 Industrial relations
 Inspection
 Inventories
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 Job work
 Machine shop management
 Machine works
 Material handling

FACTORY management—See also—Continued

Mechanical handling
 Medical service, Industrial
 Office management
 Organization in industry
 Packing for shipment
 Production
 Production control
 Purchasing
 Quantities (in production)
 Research departments
 Routing systems
 Safety devices and measures
 Salvage (waste, etc)
 Schedules
 Shipment of goods
 Shipping departments
 Standardization
 Suggestion systems
 Tool engineering
 Tool rooms
 Vacations
 Visitors

also subdivision Management under special subjects, e.g.
 Airplane factories
 Chemical plants
 Drug factories
 Flour mills
 Food factories
 Glass factories
 Hosiery mills
 Ice cream factories
 Knitting mills
 Machine works
 Metal working plants
 Paint shops
 Paper and pulp mills
 Rolling mills
 Steel works
 Textile mills

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See also

Drinking fountains
 Dust collectors
 Dust removal
 Food factories—Sanitation
 Trade waste

FACTORY transportation

See also

Conveying machinery
 Electric trucks, Industrial
 Material handling
 Mechanical handling
 Motor trucks, Industrial
 Pallets
 Tractors, Industrial
 Trucks

FACTORY visitors. See **Visitors**

FACTORY waste. See **Trade waste**

FACTORY yards. See **Factories—Yards**

FADING (radio waves). See **Radio transmission—Fading**

FAIR trade. See **Price fixing, Resale**

FAIRBANKS, Alaska

Water supply

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- Building
- Chemical industries
- Colleges and universities
- Electronics industry
- Gas, Natural—Pipe lines
- Gas companies
- Gas industry
- Mineral industries
- Petroleum industry and trade
- Railroads
- Real estate business
- Roads
- Rock products plants
- Rubber industry and trade
- Scientific research
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- Sprinkling systems

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 Fireproofing of textiles
 Inflammable liquids
 Inflammable mixtures
 Magnesium—Fire hazards
 Rubber, Cellular—Fire hazards
 Sprinkling systems
 also subdivision Fires and fire protection under special subjects, e.g.
 Automobile factories
 Chemical plants
 Coal mines and mining
 Electric plants (central stations)
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Osmium fluorides

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Coal

Coke

Gas, Natural

Gas as fuel

Gasoline

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Propellants

Waste fuel

also subdivision Fuel under special subjects e.g.

Airplane engines

Automobile engines

Diesel engines

Electric plants (central stations)

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Hydroelectric plants
Moving picture industry
Petroleum industry and trade
Petroleum pipe lines
Railroads
Rubber industry and trade
Steel industry and trade
Steel works
Television broadcasting
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Canals

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Colleges and universities

Drug trade

Electric apparatus industry

Electric industries

Electric lines

Electric plants (central stations)

Electric utilities

Electricity supply

Electronics industry

Engineering education

Food laws and regulations

Gas, Natural

Gas, Natural—Pipe lines

Gas supply

Iron industry and trade

Machine tool industry

Machinery industry

Moving picture industry

Plastics industries

Radio apparatus industry

Radio broadcasting

Radio communication

Railroads

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Roads

Rubber industry and trade

Science and state

Scientific research

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Pyroceram
Refractory materials
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Glass—Heat transmission
Heat conduction
Heat conductivity
Heat convection
Heat exchangers
Heat radiation
Insulation (heat)

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Electric furnaces, Heat treating
Quenching
Steel, Heat treatment of
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HEAT treatment of steel. See Steel, Heat treatment of

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Electric heaters
Feed water heaters
Gas heaters
Oil heaters
Water heaters

HEATERS, Pebble. See Pebble heaters

HEATING

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See also

American society of heating and air conditioning engineers

Boilers. Heating
Building—Heating aspects
Chimneys

Electric heaters

Electric heating

Fuel

Gas heaters

Gas heating

Heat pump

Heating, Warm air

Heating from central stations

Hot water heating

Insulation (heat)

Oil heaters

Refractory materials

Solar heating

Steam heating

Ventilation

also subdivision Heating and ventilation under special subjects, e.g.

Airplane factories

Airplanes

Automobiles

Chemical laboratories

Churches

Factories

Foundries

Garages

Hospitals

Military buildings

Office buildings

Packing houses

School buildings

Ships

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Atomic research
Chemical engineering
Chemical industries
Electricity supply
Engineering education
Fuel supply
Gas, Natural
Geology
Hydroelectric plants
Iron industry and trade
Irrigation
Mines and mineral resources
Petroleum
Quarries and quarrying
Rubber industry and trade
Scientific research
Steel industry and trade
Steel works
Technical education
Water supply

INDIANA

See also subdivision Indiana under special subjects, e.g.
Coal mines and mining
Geology
Mines and mineral resources
Petroleum industry and trade
Roads
Sewerage

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- Supervisory workers—Training
- Technical education
- Textile education
- Trade schools
- Vocational education

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 Committees (in management)
 Communication in management
 Efficiency, Industrial
 Employment management
 Engineering departments
 Factory management
 Foundry management
 Industrial engineering
 Industrial engineers
 Inspection
 Inventories
 Linear programming
 Machine shop management
 Machinery, Replacement of
 Mine management
 Office management
 Operations research
 Organization in industry
 Public relations
 Purchasing
 Routing systems
 Specialization in industry
 Standardization
 Suggestion systems
also subdivision Management under special subjects, e.g.
 Airplane factories
 Automobile factories
 Bakers and bakeries
 Canneries
 Chemical plants
 Clay products plants
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Unemployment

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Nylon—Knit goods

Sweaters

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Astigmatism (lenses)
Brightness
Color
Daylight
Diffraction
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Glare
Infrared rays
Interference (light)
Lighting
Photochemistry
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- Daylight
- Electric lamps
- Gas lighting
- Glare
- House lighting
- Light projection
- Office lighting
- Photometry
- Searchlights
- Stage lighting
- Street lighting
- Tunnel lighting
- also subdivision Lighting under special subjects, e.g.*
- Airplane factories
- Airplanes
- Airport buildings
- Airports
- Amphitheaters
- Bakers and bakeries
- Bank buildings
- Bins
- Bowling alleys
- Brick works
- Bridges
- Churches
- Cigar factories
- College buildings
- Conference rooms
- Dance halls
- Department stores
- Drafting rooms
- Entrances
- Factories
- Grade crossings
- Gymnasiums
- Hotels
- Insurance company buildings
- Kitchens
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- Moving picture theaters
- Night clubs
- Paper and pulp mills
- Petroleum refineries
- Photography
- Post offices
- Printing offices
- Reception rooms
- Restaurants
- Roads
- School buildings
- Shopping centers
- Shuffleboard courts
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- Oil mists
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- Air compressors
- Airplane engines
- Automobile engines
- Automobiles
- Bearings
- Bearings. Roller
- Blast furnaces
- Coal mining machinery
- Construction equipment
- Conveying machinery
- Cranes, derricks, etc.
- Diesel engines
- Diesel engines, Marine
- Electric motors
- Gas compressors
- Gas turbines, Aircraft
- Gasoline pumps
- Gearing
- Internal combustion engines
- Knitting machines
- Locomotives, Diesel-electric
- Machine tools
- Motor boat engines. Outboard
- Motor truck engines
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Assembling methods
Balancing of machinery
Bearings
Bearings, Ball
Bearings, Roller
Belting
Bending machines
Bolts and nuts
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Broaching machines
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Crankshafts
Crushing machinery
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Cutting off machines
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Mechanical handling
Mechanics
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Molding machines
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Pins, Machinery
Planing machines
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Pumping machinery
Pumps
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Road making machinery
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Screw machines
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Sewing machines
Shafting
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Shoe machinery
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Spinning machinery
Springs (mechanism)
Steam turbines
Testing machines
Textile machinery
Threading machines
Time study (of machinery)
Tractors
Trenching machinery
Turbines
Typesetting machines
Valves
Vending machines
Washers (machinery)
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Winding machines
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Friction
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- Harmonic analysis
- Integrals
- Integration
- Interpolation
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- Logarithms
- Matrices
- Mechanics
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Atoms
Compressibility
Dynamics
Glassy state
Hardness
Physics
Solids

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See also

Area measurement
Calipers
Calorimeters and calorimetry
Coal measurement
Electric measurements
Frequency measurement
Gages
Gas measurement
Length measurement
Magnetic measurements
Optical measurements
Photometry
Pressure measurement
Radio measurements
Standards of length
Stream measurement
Thickness measurement
Time measurement
Transistors—Measurement uses
Vacuum tubes—Measurement uses
Volume
Weighing
X rays—Measurement uses
also subdivision Measurement under
special subjects, e.g.
Beta rays
Cotton fibers
Gamma rays
Gearing
Neutrons
Petroleum
Radiation
Screw threads
Tanks
Ultraviolet rays
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See also

Calipers
Comparators
Dilatometers
Electric instruments
Gages
Goniometers
Meters
Micrometers
Planimeters
Pressure gages
Rule (instrument)
Sine bars
Slide rule
Spherometers
Thickness measurement
Timing devices
Vibration—Measurement

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See also

Collimators
Interferometers
Stroboscopic instruments

Manufacture

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Cooling of meat
Ham
Packing houses

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See also

Poultry, Frozen

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See also

Drafting room practice
Projection, Axonometric

MECHANICAL engineering

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American society of mechanical engineers
Boilers
Electric engineering
Fuel
Horsepower
Lubrication and lubricants
Machine shop practice
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 - Electrochemical cutting
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 - Grooving
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- Seattle—Metropolitan district
- Water districts
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- Chemical engineering
- Chemical industries
- Electric industries
- Gas, Natural
- Geology

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Mechanical models

Mine models

Radio antennas—Model testing

Structural engineering—Model testing

also subdivision Models under special subjects, e.g.

Airships

Atoms

Automobiles

Bridges, Suspension

Crystallography

Dust collectors

Electric precipitators

Electric substations

Electronic circuits

Engines

Flues

Glass tanks

Machinery

Molecules

Nuclear reactors

Petroleum refineries

Water pipes

MODELS, Layout

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Small skeletons for mass markets. *Il Mod Plastics* 36:100-1+ S '58

MOHR circle diagram

Mohr's circle provides a rapid method for finding states of stress; data sheet. E. W. Suppiger. *diags Machine Design* 29:113 D 26 '57

MOISTURE

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Moisture shorts out electric circuits. *diags Aviation Age* 28:138 Mr '58

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See also

Cotton fabrics—Moisture absorption

Dampness in buildings

Evaporation

Humidity

Hygrometers

Package goods—Protection

Refrigeration and refrigerating machinery—Moisture problem

Soil moisture

Water vapor

also subdivision Moisture content under special subjects, e.g.

Air

Building materials

Carbon black

Compressed air

Concrete

Cotton yarn

Food, Frozen

Gases

Paper

Paper board

Textile fibers

Wood pulp

MOISTURE detectors

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MOISTURE of soil. See Soil moisture

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Molds (for plastics)

Plastics

Resinous products

Manufacture

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See also

Molding machines (for plastics)

Testing

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MOLDED products, Mechanical

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Bearings, Plastic

Gearing, Plastic

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- Extrusion process (plastics)
- Nylon—Molding

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MOLDING machines

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Control

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MOLDING machines (for plastics)

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- Rotating rubber molder can form 200,000 parts daily. *il* Plastics World 16:9 Jl '58

MOLDS (botany)

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See also

- Eremothecium
Fungi
Mildew

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See also

- Cores
Sand, Foundry
Steel Ingots—Molds

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Moving picture photography—High speed
Photometers
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See also subdivision Oregon under special subjects, e.g.

- Architecture, Domestic
- Electronics industry
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- Mercury mines and mining
- Petroleum
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- RECORDING spectrophotometers.** *See Spectrophotometers, Recording*

RECORDS

- See also*
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Inventories
Photographic records
Production control
Punched card system
Sales records
also subdivision
Records under special subjects, e.g.
Accidents, Industrial
Banks and banking
Chemistry, Analytic
Factories
Maintenance departments
Metallurgical laboratories
Payrolls
Public health departments
- RECORDS, Microfilm.** *See Microfilm records*
- RECORDS, Phonograph.** *See Phonograph records*
- RECORDS, Preservation of**
See also
Microfilm records
- RECREATION**
See also
Playgrounds
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Fire brick
Forsterite
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Ammonia
Brine, Frozen
Butane
Chlorodifluoromethane
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Dichlorodifluoromethane
Dry ice
Propane

Analysis

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Cold storage

REFRIGERATING engineers, American society of. See American society of refrigerating engineers

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See also

Cold storage
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Electricity in refrigeration
Piping (refrigerating plants)
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REFRIGERATION and refrigerating machinery

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Compressors
Cooling
Cooling equipment
Electricity in refrigeration
Ice machines
Piping (refrigerating plants)
Skating rinks

Control

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Maintenance and repair

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Refrigeration and refrigerating machinery

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Gas sampling

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Mica
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Soundproofing
Speech
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Vibration

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See also

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Earphones
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Sonar
Spectrograph, Sonic
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Raman effect
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Ferrates
Garnet
Glass
Hydrogen
Manganese ferrates
Methane
Molybdenum
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Rhenium
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Spectrophotometers

SPECULATION

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National conference on standards
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Radio standards
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Aeronautics
Aluminum work
Belting
Boilers
Brakes, Electric
Bushings, Insulating
Clothing and dress
Concrete, Reinforced
Concrete construction
Containers (for shipping)
Cranes, derricks, etc.
Crystals, Piezoelectric
Drafting room practice
Electric cables
Electric circuits
Electric distribution
Electric motors
Electric motors, Direct current
Electric substations
Electric transformers
Electric welding, Arc
Electroacoustic transducers
Electronic apparatus and appliances
Extrusion process
Files and filing (documents, etc.)
Flanges
Floors, Concrete
Gas appliances
Gas meters
Glass, Colored
Glassware, Laboratory
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Grinding wheels
Hydrants
Hygiene, Industrial
Insulating materials
Insulation (electric)
Iron
Joists, Steel
Lathes
Lenses
Lighting
Lubrication and lubricants
Machine tools
Machinery
Magnetic tape
Measuring instruments, Electric
Metals, Nonferrous
Moving picture films
Moving picture machines
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Plastics
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Semiconductors
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 - Chemicals
 - Cotton
 - Cottonseed
 - Food
 - Food, Frozen
 - Fruit
 - Gas, Natural
 - Liquefied petroleum gas
 - Liquid fuel
 - Machine tools
 - Paint
 - Pipes
 - Potatoes
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 Bronze
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 Busbars
 Cameras
 Cards
 Cast iron
 Castings
 Ceramic materials
 Chlorodifluoromethane
 Chromium plating
 Coke
 Concrete
 Concrete blocks
 Copper
 Corrosion and anti-corrosives
 Corrosion resisting materials
 Cotton fibers
 Cutting tools
 Dichlorodifluoromethane
 Diesel engines
 Electric apparatus and appliances
 Electric cables
 Electric equipment
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 Electric lines
 Electric resistors
 Electric transformers
 Electric welding
 Enamel and enameling
 Excitation equipment
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 Food, Frozen
 Foundation soils
 Gage blocks
 Gas appliances
 Gas meters
 Gas turbines, Aircraft
 Gas turbines, Marine
 Gasoline
 Gearing
 Glass
 Guided missiles
 Hardness
 Heat resisting materials
 Ice
 Internal combustion engines
 Iron
 Joints

- Jute
 Klystron
 Lacquer and lacquering
 Laminated construction
 Lenses
 Linemens equipment
 Lubricating greases
 Magnetic materials
 Metal powders
 Metal protection
 Metals
 Milk
 Mortar
 Mouthproofing preparations
 Nuclear reactors
 Paint
 Petroleum products
 Pipes, Steel
 Plastics
 Polyethylene
 Pumps
 Pumps, Centrifugal
 Radio apparatus
 Rafters
 Refractory materials
 Refrigeration and refrigerating machinery
 Refuse incinerators, Domestic
 Rubber
 Rubber, Artificial
 Ship plates
 Springs (mechanisms)
 Steam turbines
 Steel, Stainless
 Steel castings
 Television antennas
 Television receiving apparatus
 Television relay systems
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Architecture
Architecture, Domestic
Electric plants (central stations)
Electric utilities
Gas, Natural
Geology
Mines and mineral resources
Petroleum
Petroleum industry and trade
Petroleum laws and regulations
Petroleum pipe lines
Petroleum workers
Water laws and regulations
Water supply

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Dyes and dyeing—Chemistry

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Resinous products—Textile uses

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Laundry

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Napping of textiles

Nylon

Nylon fabrics

Pile fabrics

Rayon

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Hemp
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Wool

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 - American institute of steel construction
 - American iron and steel institute
 - American paper and pulp association
 - American petroleum institute
 - American society for metals
 - Glass container manufacturers institute
 - International association of printing house craftsmen
 - Magnesium association
 - Malleable founders society
 - Manufacturing chemists association
 - Material handling institute
 - National electrical manufacturers association
 - National lime association
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- Chemical plants
- Electronics industry
- Equipment industries
- Heating industry
- Paint industry and trade
- Petroleum equipment industries
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Dairy waste

Fumes

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Mine water

Oil waste

Petroleum—Water problem

Petroleum waste

Sewage disposal—Sludge and refuse mixing

Sulfite liquor

Waste. Utilization of

also subdivision Waste under special subjects, e.g.

Bleacheries

Canneries

Cement plants

Cheese factories

Chemical plants

Coke plants

Dyehouses

Electroplating

Food factories

Iron works

Laundries

Lime plants

Metal working plants

Metallurgical plants

Paper and pulp mills

Petroleum refineries

Plating shops

Poultry processing plants

Steel works

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Iron mines and mining

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Air conditioning

Air filters

Air pollution

American society of heating and air conditioning engineers

Cooling

Dust removal

Electric fans, Ventilating

Exhaust systems

Fans, Mechanical

Mine ventilation

Tunnel ventilation

also subdivision Heating and ventilation under special subjects, e.g.

Airplane factories

Airplanes

Automobiles

Chemical laboratories

Churches

Factories

Foundries

Garages

Hospitals

Laboratories

Military buildings

Office buildings

Packing houses

School buildings

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Electricity supply—Vermont

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See also

Balancing of machinery

Oscillations

also subdivision Vibration under special subjects, e.g.

Automobiles

Beams and girders

Boilers

Brakes, Automobile

Bridges

Buildings

Compressors

Electric lines

Electronic apparatus and appliances

Gas turbines, Aircraft

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Reservoirs
Water tanks

WATER supply

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Filtration plants
Fire service(water supply)
Hot water supply
Pumping stations
Reservoirs
Water, Underground
Water conservation
Water consumption
Water distribution

WATER supply—See also—*Continued*

Water districts
 Water purification
 Water storage
 Water supply engineering
 Water tanks
 Watersheds
 Waterworks
 Wells
 also subdivision Water supply under
 names of places, e.g.
 Ames, Iowa
 Athens, Greece
 Baltimore
 Brazil, Indiana
 Cape Canaveral, Florida
 Caracas, Venezuela
 Chanute, Kansas
 Charlotte, North Carolina
 Cheyenne, Wyoming
 Chicago
 Cincinnati
 Cleveland
 Coalinga, California
 Cocoa, Florida
 Columbia, South Carolina
 Council Bluffs, Iowa
 Dallas
 Denver
 East Orange, New Jersey
 Eau Claire, Wisconsin
 Everett, Washington
 Fairbanks, Alaska
 Fort Wayne, Indiana
 Gary, Indiana
 Grand Rapids, Michigan
 Greensboro, North Carolina
 Greenville, South Carolina
 Highland Park, Michigan
 Holland, Michigan
 Hollywood, Florida
 Honolulu
 Kansas City, Missouri
 La Crosse, Kansas
 Lincoln, Nebraska
 Los Angeles
 Massapequa, New York
 Michigan City, Indiana
 Mount Union, Pennsylvania
 Nashua, New Hampshire
 New Haven, Connecticut
 New York (city)
 Omaha, Nebraska
 Oneonta, New York
 Ossining, New York
 Oswego, New York
 Peoria, Illinois
 Philadelphia
 Portland, Oregon
 Raleigh, North Carolina
 Richmond, Virginia
 St Cloud, Minnesota
 St Louis
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American welding society

Bridges—Welding operations

Electric welding

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Solder and soldering

also subdivision Welding under special subjects, e.g.

Aluminum

Cast iron

Copper

Magnesium

Metal foils

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